

CITY OF CHARLOTTE

NEIGHBORHOOD & BUSINESS SERVICES

Invitation to Bid NBS 17-13

Documents included in Package:

- 1) Instruction to Bidders
- 2) Specs by Location/Trade (Scope of Work)
- 3) Subcontractor Certifications (if applicable)
- 4) Floor Plan / Site Drawing (if applicable)

Bid Walk & Bid Opening:

Project Address:		244 Keswick Ave	LEADCHARLOTTE
Bid Walk: 02/21/17 at 09:00 am (TUESDAY)			
Bid Opening: 02/28/17 at 2:00 pm (TUESDAY)			
Client Name: Jimmie Martin Contact Number:			
Project Manage	r: James Mahon	Contact N	lumber: 704-614-6655

Bid Walk and Bidding Instructions:

All bid walks are mandatory.

If you are going to be late the policy is the following:

Contact me BEFORE the start time if you are going to be late. If you are going to be more than 10 minutes late, we will proceed without you and you will not be permitted to bid.

The day of a bid walk the best way to reach me is at <u>James Mahon</u> (cell # 704-614-6655).

Bids must be received by the date, time and place specified. All others will be considered non responsive and disqualified.

The Bids will be opened at 600 East Trade St. immediately following the above due date and time.



CITY OF CHARLOTTE

NEIGHBORHOOD & BUSINESS SERVICES

The undersigned, having become thoroughly familiar with the terms, conditions, limitations, and provisions of the housing improvement work to be performed at <u>244 Keswick Ave.</u> to be funded through the City of Charlotte Neighborhood & Business Services, in addition, having fully inspected the site in all particulars, hereby proposes and agrees to fully perform the work within the time stated and in strict accordance with the proposed contract documents including furnishing of any and all labor and materials, and to do all work required to complete said Work in accordance with the advised respective contractual, for the sum of money:

All labor, materials, services and equipment necessary for the completion of the Work shown on the Drawings and in the Specifications:

on one 2 and mgs and m and speed	
	Dollars (\$
Written total	
Specs Dated: 2-14-17	Number of Pages: 2 LbP (SOW and Map)
Addenda # 1 Dated:	Number of Pages:
Addenda # 2 Dated:	Number of Pages:
Project Schedule: Minimum Start Da	te - 4 weeks after Bid Due Date * March 28
Completion Deadline: April 14, 2017	

Please Print and Sign:		
Company Name/Firm:		
Authorized Representative Name:		
Signature:	Date:	



CITY OF CHARLOTTE

NEIGHBORHOOD & BUSINESS SERVICES

Requirements For Bidders

The City awards rehabilitation bids to the lowest responsive and responsible bidder. A responsible bidder for the safe home program is one who:

- 1) Is a licensed general contractor in the State of North Carolina;
- 2) Has an Renovate, Repair & Paint Certification (http://www2.epa.gov/lead/renovation-repair-and-painting-program);
- 3) Is not listed on a local, state or federal debarment list;
- 4) Carries an appropriate amounts of insurance;
- 5) Can provide references verifying the contractor has completed work of a similar scope in a good workmanship like manner or successfully completed prior work for the Safe Home program. Referenced work must have been completed in one year or less from date of this invitation to bid.

A responsive bidder must:

- 1) Submit all requested documentation on time;
- 2) Meet the above requirements for responsibility at the time of bid submittal;
- 3) Have the capacity to meet the required schedule for the project.
- 4) Existing rehab projects contracted by the contractor must be on schedule.

The City reserves the right to waive any minor informalities or irregularities, which do not go to the heart of the bid submittal or prejudice other offers, or to reject, for good and compelling reasons, any or all bid submittals.

James Mahon Rehabilitation Specialist City of Charlotte Neighborhood and Business Services 600 E. Trade St. Charlotte, NC 29202

PH: (704) 432-2321 Fax: (704) 336-3489

NEIGHBORHOOD & BUSINESS SERVICES

LEAD ABATEMENT SCOPE OF WORK

& INSTRUCTIONS TO BIDDERS

Address

244 Keswick Ave.

Complete the following scope of work:

n#	Feature	Method		Cost Per unit	Total cost
		Remove gutters. Wrap eaves with Tyvek			
		and wrap with aluminum. Re-install			
1	Fascia/Soffit	gutters.	1		
		Wrap bottom of wood siding on all			
		exterior walls with Tyvek and install J			
2	Bottom of siding	channel.	1		
		Remove all deteriorated paint on all			
		components, prime and repaint to match			
3	Front porch	existing.	1		
		Remove all existing components and			
		install new pressure treated 2x8 frame.			
		Install a single hung vinyl window sized			
4	Crawl space window	to fit the opening.	1		1
	The state of the s	Remove existing door and frame and			
		install new prehung six panel insulated			
		steel door with peephole. Install new			
		knobset and deadbolt keyed alike. Paint			
5	Front door	to match existing.	1		
		Remove existing door and frame. Install			
		new prehung six panel steel door with			
		knob and deadbolt keyed to match front			
6	Crawl door	door.	1		
		Remove all deteriorated paint, spot prime			
7	Dining Room	and repaint to match existing trim.	1		
	Cleaning and	Clean house to remove lead dust to			
8	Clearance	obtain lead clearance.	1		
9	Waste Disposal	Dispose of all waste properly.	1		
10					

total

Contractors may submit an occupant protection plan on the form provided.

- 1 Contact Jim Roy if an additional form is needed. Phone 704-968-4111. Complete all interior work in a unit in a single day.
- 2 Allow for replacement of 50 board feet of rotted wood.
- 3 Unless otherwise noted any window or door removal and replacement
- 4 includes frame and trim on both sides.

 In lieu of complete removal, window frames may be enclosed with vinyl on
- 5 exterior in accordance with all project manual requirements
- 6 Contact Jim Roy to conduct inspections prior to repainting or other putback and after vinyl siding installation.

Windows being placed in a bathroom need to be tempered glass.

Total Bid

0
Date

The undersigned contractor agrees to perform the scope of work for the indicated fee in accordance with applicable regulations and the project manual. The undersigned also certifies that the work will be completed within 60 days of award.

Signature of authorized contractor representative

Contractor Submitting Bid: Address:

Phone:

NOT TO SCALE

SIDE A

244 Keswick Avenue Charlotte, NC 28206

GROUP CORPORATIONProviding integrated environmental and geotechnical solutions

ROY CONSULTING

SIDE C

2 Front 1

3 144-7

5 Cct 2 Ling

6 Front 1

2 144-7

8 Policy

7 Policy 2

7 Policy 3

7 Policy 2

7 Policy 3

7 Policy 4

7 Policy 3

7 Policy 4

2IDE B

Legend

 \longrightarrow = Window +++ = Door

= Soil Sample Location

Annual resident statements



SAFE HOME CITY OF CHARLOTTE

NEIGHBORHOOD & BUSINESS SERVICES

Invitation to Bid NBS 17-13

Documents included in Package:

- 1) Instruction to Bidders
- 2) Specs by Location/Trade (Scope of Work)
- 3) Subcontractor Certifications (if applicable)
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Bid Walk & Bid Opening:

Project Address:	428 WOODVALE PLACE	SAFE HOME CHARLOTTE	
		LEADSAFE CHARLOTTE	
Bid Walk:	02/21/17 at 10:00 am (TUES	DAY)	
Bid Opening:	02/28/17 at 2:00 pm (TUESDAY)		
Client Name: Ella Talley (Gilda Talley)		Contact Number:	
Project Manager: James Mahon		Contact Number: 704-614-6655	

Bid Walk and Bidding Instructions:

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Contact me BEFORE the start time if you are going to be late. If you are going to be more than 10 minutes late, we will proceed without you and you will not be permitted to bid.

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CITY OF CHARLOTTE

NEIGHBORHOOD & BUSINESS SERVICES

Company A	knowledgement:
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The undersigned, having become thoroughly familiar with the terms, conditions, limitations, and provisions of the housing improvement work to be performed at <u>428 WOODVALE PLACE</u> to be funded through the City of Charlotte Neighborhood & Business Services, in addition, having fully inspected the site in all particulars, hereby proposes and agrees to fully perform the work within the time stated and in strict accordance with the proposed contract documents including furnishing of any and all labor and materials, and to do all work required to complete said Work in accordance with the advised respective contractual, for the sum of money:

All labor, materials, services and equipment necessary for the completion of the Work shown on the Drawings and in the Specifications:

	Dollars (\$)
Written total	
Specs Dated: 02-14-17	Number of Pages: 11 Pages (Rehab) + 2 LbP
Addenda # 1 Dated:	Number of Pages:
Addenda # 2 Dated:	Number of Pages:
Project Schedule: Minimu	ım Start Date - 4 weeks after Bid Due Date * March 28,2017
Completion Deadline:	May 12 , 2017

Please Print and Sign:		
Company Name/Firm:		
Authorized Representative Name:		
Signature:	Date:	



CITY OF CHARLOTTE

NEIGHBORHOOD & BUSINESS SERVICES

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- 2) Has an Renovate, Repair & Paint Certification (http://www2.epa.gov/lead/renovation-repair-and-painting-program);
- 3) Is not listed on a local, state or federal debarment list;
- 4) Carries an appropriate amounts of insurance;
- 5) Can provide references verifying the contractor has completed work of a similar scope in a good workmanship like manner or successfully completed prior work for the Safe Home program. Referenced work must have been completed in one year or less from date of this invitation to bid.

A responsive bidder must:

- 1) Submit all requested documentation on time;
- 2) Meet the above requirements for responsibility at the time of bid submittal;
- 3) Have the capacity to meet the required schedule for the project.
- 4) Existing rehab projects contracted by the contractor must be on schedule.

The City reserves the right to waive any minor informalities or irregularities, which do not go to the heart of the bid submittal or prejudice other offers, or to reject, for good and compelling reasons, any or all bid submittals.

James Mahon
Rehabilitation Specialist
City of Charlotte
Neighborhood and Business Services
600 E. Trade St.
Charlotte, NC 29202

PH: (704) 432-2321 Fax: (704) 336-3489

> NEIGHBORHOOD & BUSINESS SERVICES

Prepared By:

City of Charlotte Neighborhood & Business Services 600 E. Trade Street Charlotte, NC 28202 (704) 336-7600

Prope	rty I	Details
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Add	ress:

428 Woodvale Pl

Charlotte, NC 28208

Structure Type:

Single Unit

Square Feet:

1220

Year Built:

1941

Property Value:

Tax Parcel:

07107417

Census Tract:

Property Zone:

Council District 2

Repairs

Description

Floor

Ella Talley

Home: (704) 737-2790

Safe Home FY 2015

Room

Response Due: 2/28/2017 2:00 pm

Exterior

Replace Receptacles & Switches with Plates

KITCHEN

Exterior

Replace all receptacles, switches and cover plates throughout entire house. Use code appropriate devices. This includes any new wire required to install GFCl's in kitchen, bathrooms, laundry and exterior. This also includes any wall or ceiling damage repairs.

Owner:

Owner Phone: Program(s):

Bid Cost:	>	·=	
	Base	Quantity	Total Cost

Wall Finish Repair

KITCHEN

Exterior

Repair wall finish. Patch drywall or plaster holes in wall greater than one inch. All others use an adhesive mesh and mud over the mesh with the appropriate material. Wet sand smooth. (Also 26.0 - Plaster)



Bid Cost:		<u> </u>	=	
	Base	Quantity	Total Cost	

Ceiling Repair

KITCHEN

Exterior

Repair ceiling finish. Patch drywall or plaster holes in ceiling greater than one inch. All others use an adhesive mess and mud over mesh with the appropriate material. Wet sand and smooth.



Bid Cost: ____ = ____ Base Quantity Total Cost

Prep & Paint Room Semi Gloss

KITCHEN

Exterior

Remove or cover hardware and accessories not to be painted. Scrape loose, peeling, cracked and blistered areas. Clean oil, grease, fungus, dirt, and dust from surfaces. Fill holes and cracks. Prime all new materials and spot prime existing with acrylic latex. Top coat with owner's choice of low VOC acrylic SEMI-GLOSS latex. Replace or uncover hardware, fixtures and accessories. Any moving of furniture required shall be included. (33.27)



Bid Cost: ____ = ____ Base Quantity Total Cost

Counter Tops Replace

KITCHEN

Exterior

Screw to base cabinet a square edged plastic laminate counter top. Provide end-caps and cutout for sink. Caulk counter top to adjoining walls with low VOC caulking to match wall color. Owner's choice of in-stock color and texture. (32.10)



Bid Cost: ____ = ____ Base Quantity Total Cost

Double Bowl Sink Complete

KITCHEN

Exterior

Install a 18 gauge 33" x 22" x 9" double bowl, stainless steel, self rimming kitchen sink including a single handle metal body faucet, rated at 2.0 GPM or less, with a 15 year drip- free warranty, P-trap, supply lines, full port ball type shut-off valves & escutcheon plates on all supply & drain lines. No copper compression fittings. (34.23)



Bid Cost:	•	Χ	=
	Base	Quantity	Total Cost

CECI	Recep	taala	20	VWVD
GEGI	Recen	latie	20	MINIT

KITCHEN

Exterior

Install a flush mounted, ground fault circuit interrupted, duplex receptacle and cover plate. Fish wire and repair all tear out as needed.

d Cost: X

Base

Quantity

otai oost

Range Hood Vented

KITCHEN

Exterior

Install an INTERIOR RECIRCULATING enameled range hood with integral controls and light capable of 100 cfm at 70 sones. Attach hood to cabinet with screws. Use # 14 copper Romex. Owner's choice of color.



Bid Cost:

___X___

Quantity

Total Cost

Resilient Flooring

KITCHEN

Exterior

Install 25 year warrantied resilient floor covering per manufacturer's specifications. Include transitions and painted or stained wood 1/4 round at all perimeters to complete installation.



Bid Cost: _

__x_

Quantit

Total Cos

Prep & Paint Room Semi Gloss

BATHROOM- Master

Exterior

Remove or cover hardware and accessories not to be painted. Scrape loose, peeling, cracked and blistered areas. Clean oil, grease, fungus, dirt, and dust from surfaces. Fill holes and cracks. Prime all new materials and spot prime existing with acrylic latex. Top coat with owner's choice of low VOC acrylic SEMI-GLOSS latex. Replace or uncover hardware, fixtures and accessories. Any moving of furniture required shall be included. (33.27)



Bid Cos

___X__

Quantit

otal Cost

Light Fixture Replace				BATHROOM	/I- Master	Exterior
Replace or install a ceiling mounted 2 bulb or wall mounted	d 4 bulb strip, UL a	oproved, CF	L or L	ED light fixture	with shade	and lamps.
	Bid Cost:		_x_	== Quantity		
		Base		Quantity	Tota	l Cost
GFCI Receptacle 20 AMP				BATHROOM	/I- Master	Exterior
Install a flush mounted, ground fault circuit interrupted, du	plex receptacle and	cover plate	. Fish	wire and repair	all tear out	as needed.
	Bid Cost:		_x_			
		Base		== Quantity	Tota	l Cost
Bathtub and Shower Surround 5' Fiberglass				BATHROOM	/I- Master	Exterior
Install a 5', white Swan or equivalent 3 piece, fiberglass shandled tub/ shower diverter valve and drain. (34.29)	nower surround. Ca	ulking all se	ams a	nd penetrations	. Include ne	w single
(2 4 2	Bid Cost:		Х	=		
	_	Base		= Quantity	Tota	l Cost
Bath Exhaust Fan Replace				BATHROOM	//- Master	Exterior
Install a ceiling or through-the-wall, exterior ducted, vent fine Repair any tear out. (36.25)	an with damper. Inc	lude power	and sv	vitch wiring usin	g #14 copp	er Romex.
	Bid Cost:		х_	=		
		Base		Quantity	Tota	l Cost
Vinyl Sheet Goods				BATHROOM	/I- Master	Exterior
Install vinyl sheet goods installed per manufacturer's reco	mmendations.					
	Did Coct		v	_		

Base

Quantity

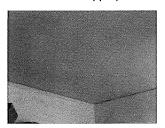
Total Cost

Ceiling Repair

Bedroom - Master

Exterior

Repair ceiling finish. Patch drywall or plaster holes in ceiling greater than one inch. All others use an adhesive mess and mud over mesh with the appropriate material. Wet sand and smooth.



Bid Cost: ____ = ____ Base Quantity Total Cost

Wall Finish Repair

Bedroom - Master

Exterior

Repair wall finish. Patch drywall or plaster holes in wall greater than one inch. All others use an adhesive mesh and mud over the mesh with the appropriate material. Wet sand smooth. (Also 26.0 - Plaster)



Bid Cost: X = ______

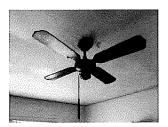
Base Quantity Total Cost

Ceiling Fan with Light Kit

Bedroom - Master

Exterior

Install a 52" 3 speed flush mounted ceiling fan with a minimum two bulb UL approved, CFL or LED light fixture with shade and lamps. Include ceiling fan mounting box. (35.10)



Bid Cost: X = Total Cost

Wood Floor Refinish

BEDROOM -2

Exterior

Remove any tack strips, shoe or 1/4 round moldings. Replace any deteriorated planks. Drum and edge sand all floor surfaces. Fill all nail holes and minor voids. Vacuum and tack rag room. Apply a sealer for soft woods, apply owner's selection of stain and two coats of oil based polyurethane varnish. Include all moving of furniture. (30.12)



Bid Cost: X =

Base Quantity Total Cost

BEDROOM -2 Carpet & Pad **Exterior** Contractor to move furniture as required to complete carpet installation and return furniture. Remove existing carpet, pad, tack strips and metal edge strips to a code legal dump. Install 28oz or better low VOC carpet over 6 lb. rebond pad including new tack strips and metal edging. Owner's choice of color and style. Quantity BEDROOM -2 Ceiling Fan with Light Kit Exterior Install a 52" 3 speed flush mounted ceiling fan with a minimum two bulb UL approved, CFL or LED light fixture with shade and lamps. Include ceiling fan mounting box. (35.10) BEDROOM -2 **Prep & Paint Room Flat Exterior** Remove or cover hardware and accessories not to be painted. Scrape loose, peeling, cracked and blistered areas. Clean oil, grease, fungus, dirt, and dust from surfaces. Fill holes and cracks. Prime all new materials and spot prime existing with acrylic latex. Top coat with owner's choice of low VOC acrylic FLAT latex. Replace or uncover hardware, fixtures and accessories. Any moving of furniture required shall be included. Bid Cost: ____ X = ____ **Total Cost**

Light	Fixture	Rep	lace
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BEDROOM -2

Exterior

Replace or install a ceiling mounted 2 bulb or wall mounted 4 bulb strip, UL approved, CFL or LED light fixture with shade and lamps.

Bid Cost: ____ = ____ Base Quantity Total Cost

Doorbell System

GENERAL REQUIREMENTAGerior

Install a doorbell system containing a low voltage transformer, power connection, buzzer and front door button. (35.11)

Bid Cost: X = Total Cost

Permits Required			GENERAL	REQUIREMENT Serior
The contractor is responsible obtaining and paying for all perm	its required. Sa	id permits sha	all include all items	in this scope of work.
	Bid Cost:		X =	
	Did 003t	Base	Quantity	Total Cost
Portable Toilet			GENERAL	REQUIREMENT Serior
Provide temporary toilet facilities from job start until approval o	f permanent fac	cilities.		
	Bid Cost:		X=	=
		Base	Quantity	Total Cost
Smoke Detector Hard Wired			GENERAL	REQUIREMENT Serior
Install UL approved, interconnected, ceiling mounted smoke are battery backups in bedrooms and outside of sleeping areas.	nd heat detecto	rs permanent	ly wired into a rece	ptacle boxes with
	Bid Cost:		X=	_
				-
			Quantity	
Combination CO2/Smoke Detector Hard Wired			Quantity	
Combination CO2/Smoke Detector Hard Wired Install a hard wired combination carbon monoxide and smoke		Base	Quantity GENERAL	Total Cost
	detector with ba	Base attery back up	Quantity GENERAL (35.09)	Total Cost
	detector with ba	Base attery back up	Quantity GENERAL (35.09)	Total Cost REQUIREME ™E RSerior
	detector with ba	Base attery back up	Quantity GENERAL (35.09) X Quantity	Total Cost REQUIREME 性於 erior
Install a hard wired combination carbon monoxide and smoke	detector with ba	Base attery back up Base	Quantity GENERAL (35.09) X Quantity GENERAL	Total Cost REQUIREMENT Serior Total Cost REQUIREMENT Serior
Install a hard wired combination carbon monoxide and smoke of the smok	detector with ba Bid Cost:	Base attery back up Base tic access, ea	Quantity GENERAL (35.09) X Quantity GENERAL sily seen. Include v	Total Cost REQUIREMENT Serior Total Cost REQUIREMENT Serior ventilation baffles to
Install a hard wired combination carbon monoxide and smoke of the smok	detector with ba Bid Cost:	Base attery back up Base tic access, ea	Quantity GENERAL (35.09) X Quantity GENERAL sily seen. Include v	Total Cost REQUIREMENT Serior Total Cost REQUIREMENT Serior

Install combination AC/furnace unit, minimum 14 SEER design per manual J and Manual D for this home.

Total Cost

Quantity

Drain/Waste/Vent 1 Bath Hse

GENERAL REQUIREMENT Serior

Remove all drain, waste and wet vent lined to code legal dump. Install schedule 40 PVC to service one 3-piece bath, kitchen and laundry area from the roof vent pipe(s) through the foundation wall to include a main clean out outside to code

Bid Cost: ____ = ____ Base Quantity Total Cost

Ceiling Fan with Light Kit

LIVING ROOM

Exterior

Install a 52" 3 speed flush mounted ceiling fan with a minimum two bulb UL approved, CFL or LED light fixture with shade and lamps. Include ceiling fan mounting box. (35.10)



Base Quantity Total Cost

Ceiling Repair

LIVING ROOM

Exterior

Repair ceiling finish. Patch drywall or plaster holes in ceiling greater than one inch. All others use an adhesive mess and mud over mesh with the appropriate material. Wet sand and smooth.



Bid Cost: ____ X = ____ Base Quantity Total Cost

Ceiling Repair

DEN/OFFICE/STUDY

Exterior

Repair ceiling finish. Patch drywall or plaster holes in ceiling greater than one inch. All others use an adhesive mess and mud over mesh with the appropriate material. Wet sand and smooth.



Bid Cost:	,		
	Base	Quantity	Total Cost

DEN/OFFICE/STUDY

Exterior

Replace or install a ceiling mounted 2 bulb or wall mounted 4 bulb strip, UL approved, CFL or LED light fixture with shade and lamps.



Light Fixture Replace

Ceiling Fan with Light Kit

DEN/OFFICE/STUDY

Exterior

Install a 52" 3 speed flush mounted ceiling fan with a minimum two bulb UL approved, CFL or LED light fixture with shade and lamps. Include ceiling fan mounting box. (35.10)



Ceiling Repair

DINING ROOM

Exterior

Repair ceiling finish. Patch drywall or plaster holes in ceiling greater than one inch. All others use an adhesive mess and mud over mesh with the appropriate material. Wet sand and smooth.

Total Cost

Prep & Paint Room Flat

DINING ROOM

Exterior

Remove or cover hardware and accessories not to be painted. Scrape loose, peeling, cracked and blistered areas. Clean oil, grease, fungus, dirt, and dust from surfaces. Fill holes and cracks. Prime all new materials and spot prime existing with acrylic latex. Top coat with owner's choice of low VOC acrylic FLAT latex. Replace or uncover hardware, fixtures and accessories. Any moving of furniture required shall be included.

Light Fixture Replace

DINING ROOM

Exterior

Replace or install a ceiling mounted 2 bulb or wall mounted 4 bulb strip, UL approved, CFL or LED light fixture with shade and lamps,

Quantity **Total Cost**

Resilient Flooring

Install 25 year warrantied resilient floor covering per manufac	cturer's specifica	tions. Include tr	ansitions and painted	d or stained wood 1/4
round at all perimeters to complete installation.				
	Bid Cost: _	x	=	
		Base	Quantity	Total Cost
Dryer Circuit			LAUNDRY	Exterior
Install 220 volt, 30 amp, surface mounted receptacle on an ir	ndividual circuit, l	Repair all wall te	ear out required. (35.	01)
	Bid Cost: _	x	=	
		Base	Quantity	Total Cost
Laundry Washer Connection Box			LAUNDRY	Exterior
Install PVC vent pipe through the roof, laundry connection boto service a washing machine. (34.19)	ox with hot and c	old hose bibbs,	and 20 amp outlet or	า a separate circuit
	Bid Cost: _	x	=	
		Base	Quantity	Total Cost
Tear Off & Reroof Shingles			EXTERIOR	Exterior
Remove and dispose of existing roofing, inspect and repair ro 30 year architectural shingles. Include ice and water shield at necessary accessories. (13.3)				
	Bid Cost:	x	=	
		Base	Quantity	Total Cost
Vinyl Soffit & Aluminum Facia			EXTERIOR	Exterior
Install vented vinyl soffit to roof edges, ensuring existing soffi overhangs. Wrap all facia and wood trim with PVC coated all			tilation. Install solid v	inyl soffit to all gable
W. Williams	Bid Cost:	х	=	
		Base	Quantity	Total Cost

DINING ROOM

Exterior

Seamless Aluminum Gutter & Down Spouts

EXTERIOR

Exterior

Install K- type .027 gauge seamless aluminum gutter to service roof with sufficient pitch to down spouts. White or brown color choice by owner.

.			(1)	
	M			
			-	0
				NOW
	T			às.
				1
			3	þ
1		2000	100000000	Stone

Bid Cost: _		X=	
	Base	Quantity	Total Cost

See Attached Lead Scope

All work shall be performed in accordance with applicable regulations and shall meet all applicable building codes. Building permits will be obtained as appropriate. Mecklenburg County requires building permits for Lead Hazard Reduction if the work involves activities subject to permitting under general conducts. (4.0)

	Bid Cost:	x	=	
	Ва		Quantity	Total Cost
Certification				
Contractor Name:		_	Total Cost:	
Signature:		_	Date:	

LEAD ABATEMENT SCOPE OF WORK & INSTRUCTIONS TO BIDDERS

Address

428 Woodvale Place

2/1/2017

Complete the following scope of work:

#	Feature	Method	Number	Cost P ₁ COST	
1	Metal window Lintels- Sides A- D	Cover with Tyvek and aluminum	c		\$(
2	Wood window sashes ,frames attic air vents,frames and metal lintels (Sides B& D)	Enclose windows with tyvek and vinyl & aluminum trim. Remove and replace gable vent with vinyl or aluminum unit.	C		\$
3	Column Support Base top (Side A)	Prep and paint whie concrete ceiling support column base top (Left side- 1 top)	0		\$
	Side C -White wood support beam and trim board adjacent to Side C Staircase. Wrap in Coil metal stock	Cover with Tyvek and aluminum	C		\$(
5	Room 1 Porch-White wood,plaster ceilings ,white crown moldings,ceiling support beams and trim boards.	Cover with Tyvek and aluminum	C		\$
6	Room 1 Porch-Window C1 & C2-White metal lintels	Cover with Tyvek and aluminum	0		\$
	Room # 1 Porch- Door C1 White wood door casing header jambs and stops and white metal lintel	Cover with Tyvek and aluminum	0		\$
	Room 7-Mud Room Side A-D Walls & Ceiling -	Cover with Tyvek and aluminum, vinyl or wood panel .	0		\$
	Room 7-Mud Room Side C-White wood window and Door frames	Cover with Tyvek and aluminum, vinyl or wood panel .	0		\$(
ίΟ	Room 7-Mud Room Door A 1- White wood door casing and header.	Cover with Tyvek and aluminum	0		\$
-	Waste Disposal	Augustus Contraction of the Cont	1		\$
	·		total		\$

Contractors may submit an occupant protection plan on the form provided.

- 1 Contact Jim Roy if an additional form is needed. Phone 704-968-4111. Complete all interior work in a unit in a single day.
- 2 Allow for replacement of 50 board feet of rotted wood.
- 3 Unless otherwise noted any window or door removal and replacement
- 4 includes frame and trim on both sides.
 - In lieu of complete removal, window frames may be enclosed with vinyl on
- 5 exterior in accordance with all project manual requirements
- 6 Contact Jim Roy to conduct inspections prior to repainting or other putback and after vinyl siding installation.

Windows being placed in a bathroom need to be tempered glass.

Total Bid

Acknowledgement of Addenda (if any):		0
Addendum#		
		Date
The undersigned contractor agrees to per	form the scope of work for the indicated	

fee in accordance with applicable regulations and the project manual. The undersigned also certifies that the work will be completed within 60 days of award.

Signature of authorized contractor representative

Contractor Submitting Bid: Address:

Phone:



GROUP CORPORATION

Providing integrated environmental and geotechnical solutions

428 Woodvale Place Charlotte, NC 28208

10mm SIDE C hond-8th 0

SIDE B

SIDE A

= Soil Sample Location

Legend

= Window

= Door

NOT TO SCALE

SIDE D



SAFE HOME **CITY OF CHARLOTTE**

NEIGHBORHOOD & BUSINESS SERVICES

Invitation to Bid

NBS 17-13

Documents included in Package:

- 1) Instruction to Bidders
- 2) Specs by Location/Trade (Scope of Work)
- 3) Subcontractor Certifications (if applicable)
- 4) Floor Plan / Site Drawing (if applicable)

Bid Walk & Bid Opening:

Project Address:	4307 HAMMETT STRE	ET SAFE HOME CHARLOTTE			
Bid Walk:	02/21/17 at 11:00 am (TUE	SDAY)			
Bid Opening:	02/28/17 at 2:00 pm (TUE	SDAY)			
Client Name: Rog	er Melville & Kathleen Melville	Contact Number:			
Project Manager: James Mahon Contact Number: 704-614-6655					

Bid Walk and Bidding Instructions:

All bid walks are mandatory.

If you are going to be late the policy is the following:

Contact me BEFORE the start time if you are going to be late. If you are going to be more than 10 minutes late, we will proceed without you and you will not be permitted to bid.

The day of a bid walk the best way to reach me is at <u>James Mahon</u> (cell # 704-614-6655).

Bids must be received by the date, time and place specified. All others will be considered non responsive and disqualified.

The Bids will be opened at 600 East Trade St. immediately following the above due date and time.



CITY OF CHARLOTTE

NEIGHBORHOOD & BUSINESS SERVICES

Company Acknowledgement:

The undersigned, having become thoroughly familiar with the terms, conditions, limitations, and provisions of the housing improvement work to be performed at <u>4307 Hammett Street</u> to be funded through the City of Charlotte Neighborhood & Business Services, in addition, having fully inspected the site in all particulars, hereby proposes and agrees to fully perform the work within the time stated and in strict accordance with the proposed contract documents including furnishing of any and all labor and materials, and to do all work required to complete said Work in accordance with the advised respective contractual, for the sum of money:

All labor, materials, services and equipment necessary for the completion of the Work shown on the Drawings and in the Specifications:

	Dollars (\$					
Written total						
Specs Dated: 2-14-2017	Number of Pages: 5 Pages + Engineering Specifications					
Addenda # 1 Dated:	Number of Pages:					
Addenda # 2 Dated:	Number of Pages:					
Project Schedule: Minimum Start Date - 4 weeks after Bid Due Date * March 28,2017						
Completion Deadline: May 15, 2	2017					

Please Print and Sign:		
Company Name/Firm:		
Authorized Representative Name:		
Signature:	Date:	



CITY OF CHARLOTTE

NEIGHBORHOOD & BUSINESS SERVICES

Requirements For Bidders

The City awards rehabilitation bids to the lowest responsive and responsible bidder. A responsible bidder for the safe home program is one who:

- 1) Is a licensed general contractor in the State of North Carolina;
- 2) Has an Renovate, Repair & Paint Certification (http://www2.epa.gov/lead/renovation-repair-and-painting-program);
- 3) Is not listed on a local, state or federal debarment list;
- 4) Carries an appropriate amounts of insurance;
- 5) Can provide references verifying the contractor has completed work of a similar scope in a good workmanship like manner or successfully completed prior work for the Safe Home program. Referenced work must have been completed in one year or less from date of this invitation to bid.

A responsive bidder must:

- 1) Submit all requested documentation on time;
- 2) Meet the above requirements for responsibility at the time of bid submittal;
- 3) Have the capacity to meet the required schedule for the project.
- 4) Existing rehab projects contracted by the contractor must be on schedule.

The City reserves the right to waive any minor informalities or irregularities, which do not go to the heart of the bid submittal or prejudice other offers, or to reject, for good and compelling reasons, any or all bid submittals.

James Mahon
Rehabilitation Specialist
City of Charlotte
Neighborhood and Business Services
600 E. Trade St.
Charlotte, NC 29202

PH: (704) 432-2321 Fax: (704) 336-3489

NEIGHBORHOOD & BUSINESS SERVICES

Prepared By:

City of Charlotte Neighborhood & Business Services 600 E. Trade Street Charlotte, NC 28202 (704) 336-7600

Charlotte, NC 28205 Owner Phone: (980) 355-5908 Structure Type: Single Unit Program(s): Safe Home FY 2015 Square Feet: 1440 Year Built: 1939 Property Value: 154100 Tax Parcel: 16104117 Census Tract: Property Zone: Council District 5	Property Details							
Structure Type: Single Unit Program(s): Safe Home FY 2015 Square Feet: 1440 Year Built: 1939 Property Value: 154100 Tax Parcel: 16104117 Census Tract: Property Zone: Council District 5 Repairs Description Floor Room Exterior Crawl Space Access Door FOUNDATION/CRAWL SPAGGO Install a 3/4" pressure treated plywood access door in a 2" x 4" pressure treated frame. Provide galvanized iron hinges and hasp. (6,1) Bid Cost: X = Base Quantity Total Cost Regrade Crawl- Install piers to Engineering Specifications Include an allowance to drain surface water, redistribute soil and add any fill as required to create a smooth surface as to maximize the performance of the vapor barrier. (6,6) "Install Piers to Engineering Specifications (Code) Bid Cost: X = Base Quantity Total Cost FOUNDATION/CRAWL SPAGGO "Install Piers to Engineering Specifications (Code) Bid Cost: X = Base Quantity Total Cost FOUNDATION/CRAWL SPAGGO Concrete Flatwork- Install Footings to Code FOUNDATION/CRAWL SPAGGO Level surface, prepare a 3" gravel base over a uniformly graded & compacted subgrade. Install 6 mil poly, form and pour 4000 psi concrete to code and Engineering Requirements and a broom finish surface that directs water away from the building. All footings for Piers shall be 24" x 24" and 8 " in depth. Bid Cost: X = Bid Cost	Address:	4307 Hammett St	Oı	wner:	Roge	r Melville		
Square Feet: 1440 Year Built: 1939 Property Value: 154100 Tax Parcel: 16104117 Census Tract: Property Zone: Council District 5 Repairs Description Floor FOUNDATION/CRAWL SPAGGO Install a 3/4" pressure treated plywood access door in a 2" x 4" pressure treated frame. Provide galvanized iron hinges and hasp. (6,1) Bid Cost: X = Base Quantity Total Cost Regrade Crawl- Install piers to Engineering Specifications FOUNDATION/CRAWL SPAGGO Include an allowance to drain surface water, redistribute soil and add any fill as required to create a smooth surface as to maximize the performance of the vapor barrier. (6,6) "Install Piers to Engineering Specifications (Code) Bid Cost: X = Base Quantity Total Cost Concrete Flatwork- Install Footings to Code FOUNDATION/CRAWL SPAGGO Value of the vapor barrier (6,6) "Install Piers to Engineering Specifications (Code) Bid Cost: X = Base Quantity Total Cost Concrete Flatwork- Install Footings to Code FOUNDATION/CRAWL SPAGGO Value of the vapor barrier (6,6) Bid Cost: X = Base Quantity Total Cost Concrete Flatwork- Install Footings to Code FOUNDATION/CRAWL SPAGGO Value of the vapor barrier (6,6) Bid Cost: X = Base Value of the vapor barrier (6,6) Bid Cost: X = Base Value of the	Charlotte, NC 28205		O	wner Phone:	: (980) 355-5908			
Property Value: 154100 Tax Parcel: 16104117 Census Tract: Property Zone: Council District 5 Repairs Description Floor Room Exterior Crawl Space Access Door FOUNDATION/CRAWL SPAGKor Install a 3/4" pressure treated plywood access door in a 2" x 4" pressure treated frame. Provide galvanized iron hinges and hasp. (6,1) Bid Cost: X = Sase Quantity Total Cost Regrade Crawl- Install piers to Engineering Specifications FOUNDATION/CRAWL SPAGKor Include an allowance to drain surface water, redistribute soil and add any fill as required to create a smooth surface as to maximize the performance of the vapor barrier. (6,6) **Install Piers to Engineering Specifications (Code) Bid Cost: X = Sase Quantity Total Cost Concrete Flatwork- Install Footings to Code FOUNDATION/CRAWL SPAGKor Level surface, prepare a 3" gravel base over a uniformly graded & compacted subgrade. Install 6 mil poly, form and pour 4000 psi concrete to code and Engineering Requirements and a broom finish surface that directs water away from the building. All footings for Piers shall be 24" x 24" and 8 " in depth. Bid Cost: X = B	Structure Type:	Single Unit	Pr	ogram(s):	Safe	Home FY 20)15	
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Eloor Room Exterior	Property Zone:	Council District 5						
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Install a 3/4" pressure treated plywood access door in a 2" x 4" pressure treated frame. Provide galvanized iron hinges and hasp. (6.1) Bid Cost:	Description				<u>Floor</u>	Room		<u>Exterior</u>
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Include an allowance to drain surface water, redistribute soil and add any fill as required to create a smooth surface as to maximize the performance of the vapor barrier. (6.6) *Install Piers to Engineering Specifications (Code) Bid Cost:				Base		Quantity		Total Cost
the performance of the vapor barrier. (6.6) *Install Piers to Engineering Specifications (Code) Bid Cost:	Regrade Crawl- Ins	tall piers to Engineering Specifications				FOUNDA	rion/cr	AWL SEAGEOR
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Concrete Flatwork- Install Footings to Code Level surface, prepare a 3" gravel base over a uniformly graded & compacted subgrade. Install 6 mil poly, form and pour 4000 psi concrete to code and Engineering Requirements and a broom finish surface that directs water away from the building. All footings for Piers shall be 24" x 24" and 8 " in depth. Bid Cost:			Bid Cost: _		_x		=	
Level surface, prepare a 3" gravel base over a uniformly graded & compacted subgrade. Install 6 mil poly, form and pour 4000 psi concrete to code and Engineering Requirements and a broom finish surface that directs water away from the building. All footings for Piers shall be 24" x 24" and 8 " in depth. Bid Cost: X =				Base		Quantity		Total Cost
concrete to code and Engineering Requirements and a broom finish surface that directs water away from the building. All footings for Piers shall be 24" x 24" and 8 " in depth. Bid Cost:	Concrete Flatwork	- Install Footings to Code				FOUNDA	TION/CR	AWL SPAGEO
	concrete to code an	d Engineering Requirements and a broom						
Base Quantity Total Cost			Bid Cost:		_X			
			_	Base		Quantity		Total Cost

Response Due: 2/28/2017 2:00 pm

Floor System Repair -Install Beams and Girders

FOUNDATION/CRAWL SPACETOR

Install a beam or Girder in the specified location per ***Engineered Drawing - Follow Specification.

Install 2"x 8" joists hung 16" on center . Include replacing all deteriorated band joists and insulating floor to code.

** Engineer specified 3 sets of girder assembly to be installed.

	Bid Cost:		<u>x</u>	
		Base	Quantity	Total Cost
Smoke Detector Hard Wired			GENERA	L REQUIREMENTA
Install UL approved, interconnected, ceiling mounted smok battery backups in bedrooms and outside of sleeping areas		rs permanen	tly wired into a red	ceptacle boxes with
	Bid Cost:		<u>x</u>	=
		Base	Quantity	Total Cost
Combination CO2/Smoke Detector Hard Wired			GENERA	L REQUIREMENEKSerior
Install a hard wired combination carbon monoxide and smo	ke detector with ba	attery back up	o. (35.09)	
	Bid Cost:		x	=
		Base	X Quantity	Total Cost
Electric Service 200 AMP			GENERA	L REQUIREMENTASerior
Replace electrical service with new 200 amp, main disconr service cable, ground rods and cable. Include replacemen		•		
	Bid Cost:		Х	=
		Base	Quantity	Total Cost
Replace Receptacles & Switches with Plates			GENERA	L REQUIREMENTA
Replace all receptacles, switches and cover plates through wire required to install GFCI's in kitchen, bathrooms, laund				
	Bid Cost:		<u>x</u>	=
		Base	Quantity	Total Cost
Electrical Scope			GENERA	L REQUIREMENTATion
See attached scope. Correct both required and recommend	ded repairs.			
	Bid Cost:		X	=
	Dia 0031	Base	Quantity	Total Cost

DV

Interior Prehung Door

Install a 1- 3/8" prehung, door including casing both sides and	lockset. Match	existing style	e and fi	nish.		
	Bid Cost: _		x	=	ı	
		Base		Quantity	Tot	al Cost
GFCI Receptacle 20 AMP				BATHROO	M - Hall	Exterior
Install a flush mounted, ground fault circuit interrupted, duplex	receptacle and	cover plate.	Fish w	ire and repair	all tear out	as needed.
	Bid Cost: _		_x	=	1	
	Bid Cost:	Base		Quantity	Tota	al Cost
Bathtub and Shower Surround 5' Fiberglass				BATHROO	M - Hall- Le	eft Scientian
Install a 5', white Swan or equivalent 3 piece, fiberglass showe handled tub/ shower diverter valve and drain. (34.29)	r surround, Ca	ulking all sea	ms and	d penetrations	s. Include ne	ew single
	Bid Cost:		_X	_=	l .	
		Base		Quantity	Tota	al Cost
Seamless Aluminum Gutter & Downspouts - Install						
Install K- type .027 gauge seamless aluminum gutter to service by owner. Install corrugated black pipe 10' out from downspout elbows to		•	downs	pouts. White	or brown co	olor choice
	Bid Cost:		X	=		
		Base		Quantity	Tota	al Cost
Regrade Foundation & Seed						
Regrade yard to obtain proper drainage per code. Install 4" of	top soil, seed,	straw and fer	tilize d	isturbed area.		
	Rid Cost:		Y	_		
	Bid Cost:	Base		Quantity	Tota	al Cost
Brick Wall Repair				Foundation	- Crawl	
Tooth replacement brick into wall opening. Match brick and too Foundation walls (Interior) replace any missing brick,install linterion				g in and out	of foundatic	on
	Bid Cost:		_x	=		****
		Base		Quantity	Tota	al Cost

D

BATHROOM - Hall

Exterior

Floor System Repair

Left side Bathroom

Remove all fixtures not built in. Dispose of floor assembly. Install 2"x 10" joists hung 16" on center, 3/4" subfloor. Include replacing all deteriorated band joists and insulating floor to code.

* Include installation of Resilient flooring.

	Bid Cost: _		 =	
		Base	Quantity	Total Cost
Concrete and Brick Front Porch				
Remove and dispose of existing front porch and replace wi * Install new front porch to code requirements. Incorporate	th new exterior dea the existing Colur	ck, including stenns(Corner po	eps and railings wit sts into the framed	h Composite decking. roof structure.
	Bid Cost: _	>	(=	
		Base	Quantity	Total Cost
Portable Toilet				
Provide temporary toilet facilities from job start until approv	al of permanent fa	cilities.		
	Bid Cost:	X	Quantity	
		Base	Quantity	Total Cost
Permits Required				
The contractor is responsible obtaining and paying for all pe	ermits required. Sa	id permits shal	l include all items i	n this scope of work.
	Bid Cost	×	_	
	Bid Cost:	X Base	Quantity	Total Cost
Dumnster	Bid Cost:	Base	=	Total Cost
Dumpster After procuring all required permits, place AS MANY roll-off				
Dumpster After procuring all required permits, place AS MANY roll-off debris using dust control methods. Remove dumpster and raway daily using dump trailers.	dumpsters as nee	eded without da	maging the site. Co	ollect construction
After procuring all required permits, place AS MANY roll-off debris using dust control methods. Remove dumpster and r	dumpsters as nee	ded without da	maging the site. Coters use. Contracto	ollect construction r may haul debris
After procuring all required permits, place AS MANY roll-off debris using dust control methods. Remove dumpster and r	dumpsters as nee	ded without da	maging the site. Co	ollect construction r may haul debris
After procuring all required permits, place AS MANY roll-off debris using dust control methods. Remove dumpster and r	dumpsters as nee	ded without da e of the dumps X	maging the site. Coters use. Contracto	ollect construction r may haul debris Total Cost
After procuring all required permits, place AS MANY roll-off debris using dust control methods. Remove dumpster and raway daily using dump trailers.	dumpsters as nee epair any evidence Bid Cost:	eded without da e of the dumpsi X Base	maging the site. Coters use. Contracto Quantity Crawl/Found	ollect construction r may haul debris Total Cost dation Exterior
After procuring all required permits, place AS MANY roll-off debris using dust control methods. Remove dumpster and raway daily using dump trailers. Gas Pack Install metal plenum (Shroud) from unit to foundation wall	dumpsters as need repair any evidence Bid Cost:	ded without da e of the dumps X Base brick veneer fo	maging the site. Coters use. Contracto Quantity Crawl/Found	ollect construction r may haul debris Total Cost dation Exterior

D

Certification

Contractor Name:	Total Cost:
Signature:	Date:



Howard Verna Engineering P.C.

Structural Engineering Design
Residential and Commercial Inspection
Structural Inspection and Design of Repairs
Expert Witnesses: Structural & Construction

5109 Monroe Road, Suite A Charlotte, NC 28205 NC License #C-3528 SC License #4185

Office 704-331-9219

E-mail <u>dhoward@howardverna.com</u> or <u>npegan@howardverna.com</u>

Via Email to jmmahon@charlottenc.gov January 3, 2017

City of Charlotte Neighborhood Development ATTN: Jim Mahon 600 E. Trade Street Charlotte, NC 28203

RE: 4307 Hammett Street

Dear Jim:

At your request, HowardVerna Engineering made a visit to the referenced address on December 20, 2016, to provide an inspection and consultation on the possible improvement of noticeable variations in the floor elevation of the first floor and other foundation items of concern. This is a \pm 1,500 square foot house built in 1939, that was originally a duplex, but is now a single family home that is clad with siding, covered with a gable roof (left to right) and is supported over a crawlspace with pier and curtain foundation walls (see photo #1).



Photo #1

(All directions in this letter are from the perspective of a person facing the front of the house.)

1. There are $\pm \frac{1}{4}$ stair step cracks that have surfaced at the front and side faces of the front left and right corners of the front porch foundation wall (see photos #2 thru #4).



Photo #2



Photo #3



Photo #4

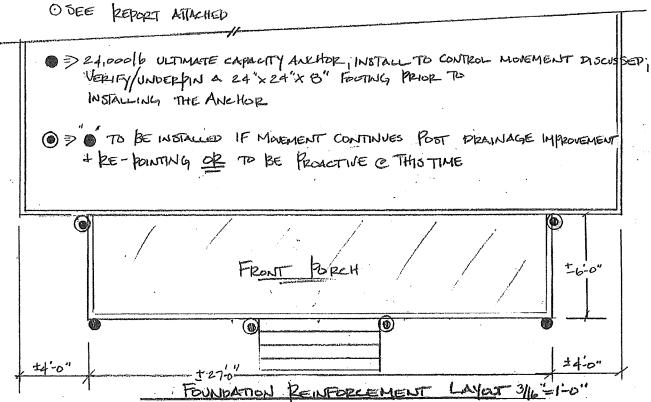


Photo #5

These cracks are the direct result of a differential settlement of the supporting soils below due to poor drainage control this affected location. The roofs above this front porch and the main home are not equipped with gutters (see photo #5) and as time passes with water shedding directly from the roof overhangs to soils supporting the foundation below that is not well graded to slope away from the foundation, the bearing capacity of the soils decreases resulting in differential settlement.

At a minimum: Gutters should be installed at the roofs of this home with drain extensions installed at all downspouts to carry water away from the foundation on to well drained locations of the lot; The soil at the perimeter of the foundation should be racks should be re-pointed and the soil should be graded away from the house to promote drainage as intended per section R401.3 of the 2012 North Carolina Residential Code; and the cracks should be re-pointed. If the cracks resurface to

magnitudes greater than $\frac{1}{2}$ in width once re-pointed or to be proactive at this time, helical piers may be installed as specified per the Foundation Reinforcement Layout below. Re-point the cracks if and when these retrofit anchors/helical piers are installed and monitor the foundation for further movement.



The use of retrofit anchors to reinforce isolated sections of a foundation is intended to control future differential settlement that may occur at the locations reinforced. Due to changes in stiffness from locations to be reinforced versus adjacent unsupported locations may cause differential settlements of unsupported adjacent locations of the foundation that were not previously affected by settlement. If such a settlement does occur in the future, contact HowardVerna Engineering for further consultation.

In addition, once placed at locations and to capacities, at or above, that specified per the Foundation Reinforcement Layout/this report, a licensed professional engineer, preferably Howard/Verna Engineering, should physically observe the placement of the anchors installed (not approval thru photos taken by the contractor) at the foundation on site (as intended per "Rules of Professional Conduct [21 NCAC 56.071 (c) (3)]"; South Carolina Code of State Regulations "49–302. Competency for Assignments.C") and a record of the capacities (pounds/kips) of each anchor installed should be provided by the contractor, post installation.

2. This home is approximately forty feet long by 34 feet wide that has main partition walls approximately thirteen and twenty six feet to the rear of the front exterior wall of this home. The front, center and rear thirds of this home are approximately thirteen feet in length at the left and right sides of a main bearing wall that spans from front to rear and is located approximately seventeen feet to the left of the right exterior wall.

The floors between these main walls have significant variations in elevation as they slope at a ½" per foot slope toward the center of each thirteen foot segment. As observed from the crawlspace, this first floor is framed with 2x8s spaced at 16" on center that span approximately thirteen feet from front to rear between double 2x8 dropped girders that are supported with 12" x 12" brick piers at approximately eight feet on center. As these joists are close to being over-spanned to support the live loads imposed in combination with the sustained dead loads and use of these floors over the past eighty years has caused these joists to deflect, resulting in the unlevel floors above.

In order to improve the performance of these floors, at a minimum, the following actions should be taken:

- a. Install new dropped spf (spruce pine fir) #2 double 2x10s or 3-2x8 girders should be installed approximately 6'-6" in front of and to the rear of the front and rear foundation walls, and at approximately 19'-6" to the rear of the front exterior foundation wall.
- b. These girders should be supported (spliced over also) over 8" x 16" masonry piers supported over 24" x 24" x 8" footings as follows:
 - Under the center double 2x8/4x8 joist below the main center bearing wall;
 - at eight feet on center between the center double 2x8/4x8 joist and the exterior foundation walls;
 - Tie to the exterior foundation walls per the Retrofit Pier to Curtain Wall Attachment Procedure below the left and right ends of each dropped girder.
- c. Once the new dropped girders are installed, they should be lifted and shimmed to a more level top elevation per the discretion of the contractor and supported with steel shims stacked between the bottom of the girders and top of the piers at each end of the pier below the girder (the use of a hydraulic jack to lift the framing may compromise the floor, wall and/or ceiling finish at or adjacent to the point of lift that may have to be repaired per typical means post lifting).

d. Separate girders from masonry or steel with a non-corrosive flashing

This framing reinforcement will require that approximately 102 feet of spf #2 double 2x10 or triple 2x8 dropped girder; ± ten interior 8" x 16" masonry piers over 24"x 24" x 8" footings below; and approximately six 8" x 16" piers tied to the exterior pier and curtain foundation walls per the Retrofit Pier to Curtain Wall Attachment Procedure below.

In order to properly install these floor reinforcements, it is highly suggested that the plumbing, electrical and HVAC components be temporarily removed and reinstalled/replaced post framing reinforcement.

3. At a point approximately 5 feet to the right of the left exterior foundation wall, 13 feet in front of the rear foundation wall, the existing dropped girder has been compromised for the installation of plumbing (see photo #6). This affected section the girder should be supported with the installation of a new 8"x 16" masonry pier supported over a 24" x 24" x 8" footing below.

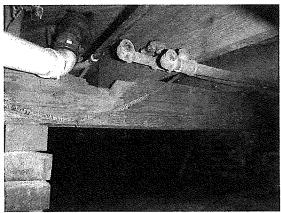


Photo #6

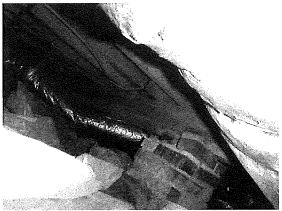


Photo #7

- 4. The existing pier located approximately 12 feet to the right of the left exterior foundation wall and thirteen feet in front of the rear foundation wall (see photo #7), is crumbling and should be removed and replaced with an 8" x 16" masonry pier supported over a 24" x 24" x 8" footing below.
- 5. There is a gap between the air duct entry of the furnace and the foundation wall that should be closed per typical means to prevent the entry of insects, vermin and moisture into the crawlspace (see photo #8).

5. There is a gap between the air duct entry of the furnace and the foundation wall that should be closed per typical means to prevent the entry of insects, vermin and moisture into the crawlspace (see photo #8).

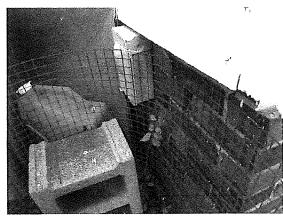


Photo #8

Re-point Procedure:

The cracks in the joints of the brick veneer should be cut out to a minimum depth of one inch and repointed with new grout to match the old grout as closely as possible while properly retooling the joints. Retooling requires all vertical head joints to be struck first and the horizontal joints to be struck last. For an aesthetically pleasing appearance, use a creamy mortar when re-pointing the brick, colored with coloring from a building supply store to match the existing brick as closely as possible. The creamy mortar should be finger-smeared into the joint, wiped down, and then the brick cleaned of mortar overrun with pure vinegar, followed by a flushing with clean water. If repaired in this manner, the brick should resemble its original appearance once the job is complete.

With cracks greater than ¼" in width at a brick veneer OR those of any size at a brick curtain wall, it is suggested that the cracks be tied back with the use of a Simpson[®] Heli-Tie[™] Helical Wall Tie (Simpson Stong-Tie HELIST254000 ¼" x 40" Stitching Tie or similar) per the manufacturer's specifications in conjunction with re-pointing.

Retrofit Pier to Curtain Wall Attachment Procedure:

- a. Underpin a new 24" x 24" x 12" footing below the existing foundation (if a minimum 2" projection between the interior face of the existing footing and the interior face of the new pier is not verified and/or if the existing footing is not 8" deep)
- b. Drill ½" diameter holes, 3" into the existing brick curtain wall, 3" from the ends of the proposed face of the new pier to be installed at the curtain wall, at 8" on center vertically,
- c. Clean each hole with a blowout bulb and wire brush
- d. Insert a two part epoxy into each hole and install a new 6" long #3 bar to each hole
- e. Place new 8" x 16" masonry pier (per Section R606.6 of the 2012 North Carolina Residential Code) above the new footing and over the new dowels.

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accuracy and scope of this report. The recommendations and opinions contained in this report are based on our professional judgment and experience. This report does not constitute an overall review or inspection of all aspects of this property. It only represents a report of the items specifically covered. The evaluation does not include destructive or invasive testing, and is limited to the visible and accessible areas of the property. Nothing is implied or can be assumed on any items not mentioned in this report.

Should you have any questions regarding this report, please feel free to contact us at the number provided above.

Sincerely,

Damon S. Howard, P.E. NC License #32126

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